

Specifications

ENGINE

Model	Komatsu SAA4D107E-1
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed.....	2.200 rpm
ISO 14396.....	97,0 kW/130 HP
ISO 9249 (net engine power).....	90,0 kW/121 HP
No. of cylinders	4
Bore x stroke.....	107 x 124 mm
Displacement.....	4,5 ltr
Batteries	2 x 12 V/120 Ah
Alternator.....	24 V/60 A
Starter motor	24 V/4,5 kW
Air filter type	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling	Suction type cooling fan

HYDRAULIC SYSTEM

Type	HydraMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuits.....	Depending on the specification up to 2 additional proportional control & quick coupler circuits can be installed
Main pump	Variable displacement piston pump supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow.....	308 ltr/min
Relief valve settings	
Implement.....	380 bar
Travel.....	420 bar
Swing	295 bar
Pilot circuit	36 bar

BRAKE SYSTEM

Type	Dual circuit hydraulic braking system supplied from a separate gear pump.
Service brakes.....	Pedal actuated wet multi-disc brakes integrated into the axle hubs.
Parking brake	Electrically actuated wet multi-disc "spring actuation hydraulic release" brake integrated into the transmission.

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IIIA exhaust emission regulations
Noise levels	
LwA external	101 dB(A) (2000/14/EC Stage II)
LpA operator ear.....	71 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm.....	≤ 2,5 m/s ² (uncertainty K = 0,495 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,16 m/s ²)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430).	
Quantity of gas 0,9 kg, CO ₂ equivalent 1,29 t.	

SWING SYSTEM

Type	Axial piston motor driving through planetary double reduction gearbox
Swing lock	Electrically actuated wet multi-disc brake integrated into swing motor
Swing speed.....	0 - 11 rpm
Swing torque	41 kNm

TRANSMISSION

Type	Fully automatic power shift transmission with permanent 4 wheel drive
Travel motors.....	One variable displacement axial piston motor
Maximum pressure.....	380 bar
Travel modes	Automatic + 3 travel modes
Max. travel speeds	
Hi / Lo / Creep	35,0 / 10,5 / 2,5 km/h
	A max. speed restriction of 20 km/h is available as an option.
Maximum drawbar pull.....	9.750 kg
Axle oscillation.....	10° Lockable in any position from the operator cab.

STEERING SYSTEM

Steering control	Hydraulic steering system supplied from a separate gear pump and controlled through LS orbitrol & priority valves.
Minimum turning radius.....	6.790 mm (to center of outer wheel)

SERVICE REFILL CAPACITIES

Fuel tank.....	300 ltr
Radiator.....	16 ltr
Engine oil	17 ltr
Swing drive.....	4,5 ltr
Hydraulic tank	166 ltr
Transmission.....	4,85 ltr
Front differential	10,5 ltr
Rear differential	9,5 ltr
Front axle hub	2,5 ltr
Rear axle hub	2,0 ltr
Swing pinion grease bath amount.....	9,0 ltr